



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Br

Search PubMed for gossypii and pompejus Preview Go Clear

Limits Preview/Index History Clipboard Details

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

- Search History will be lost after eight hours of inactivity.
- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.
- Click on query # to add to strategy

Search	Most Recent Queries	Time	Result
#21	Search gossypii and pompejus	16:01:35	0
#20	Search gossypii	16:01:06	111
#19	Search gossypii AND #17	16:00:48	0
#18	Search ashbya AND #17	16:00:35	0
#17	Search 2.7.6.1[EC/RN Number] Limits: ignored	15:59:58	379

Clear History

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

Privacy Policy

Write to the Help Desk  
NCBI | NLM | NIH  
Department of Health & Human Services  
Freedom of Information Act | Disclaimer

May 12 2004 06:43:50

## TO IDENTIFY SYNONYMS

## IUBMB Enzyme Nomenclature

**EC 2.7.6.1**

**Common name:** ribose-phosphate diphosphokinase

**Reaction:** ATP + D-ribose 5-phosphate = AMP + 5-phospho- $\alpha$ -D-ribose 1-diphosphate

For diagram of reaction [click here](#).

**Other name(s):** ribose-phosphate pyrophosphokinase; PRPP synthetase; phosphoribosylpyrophosphate synthetase; PPRibP synthetase; PP-ribose P synthetase; 5-phosphoribosyl-1-pyrophosphate synthetase; 5-phosphoribose pyrophosphorylase; 5-phosphoribosyl- $\alpha$ -1-pyrophosphate synthetase; phosphoribosyl-diphosphate synthetase; phosphoribosylpyrophosphate synthase; pyrophosphoribosylphosphate synthetase; ribophosphate pyrophosphokinase; ribose-5-phosphate pyrophosphokinase

**Systematic name:** ATP:D-ribose-5-phosphate diphosphotransferase

**Comments:** dATP can also act as donor.

**Links to other databases:** [BRENDA](#), [EXPASY](#), [GTD](#), [KEGG](#), [ERGO](#), [CAS registry number: 9015-83-2](#)

**References:**

1. Hughes, D.E. and Williamson, D.H. Some properties of glutaminase of *Clostridium welchii*. *Biochem. J.* 51 (1952) 45-55.
2. Hurlbert, R.B. and Reichard, P. The conversion of orotic acid to uridine nucleotides *in vitro*. *Acta Chem. Scand.* 9 (1955) 251-262.
3. Remy, C.N., Remy, W.T. and Buchanan, J.M. Biosynthesis of the purines. VIII. Enzymatic synthesis and utilization of  $\alpha$ -5-phosphoribosylpyrophosphate. *J. Biol. Chem.* 217 (1955) 885-895.
4. Switzer, R.L. Regulation and mechanism of phosphoribosylpyrophosphate synthetase. I. Purification and properties of the enzyme from *Salmonella typhimurium*. *J. Biol. Chem.* 244 (1969) 2854-2863. [Medline UI: [69193742](#)]

[EC 2.7.6.1 created 1961]

---

Return to [EC 2.7.6 home page](#)

Return to [EC 2.7 home page](#)

Return to [EC 2 home page](#)

Return to [Enzymes home page](#)

Return to [IUBMB Biochemical Nomenclature home page](#)